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| Form PTO-1449 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary) | ATTY. DKT. NO. 511.33114VV4 | SERIAL NO. 09/482,859 |
| | APPLICANT HAGIWARA, et al. | |
| | FILING DATE January 14, 2000 | GROUP 1752 |

U.S. PATENT DOCUMENTS

| Examiner Initial | Document Number | Date | Name | Class | Subclass | Filing Date |
|------------------|-----------------|------|------|-------|----------|-------------|
| | AA | | | | | |
| | AB | | | | | |
| | AC | | | | | |
| | AD | | | | | |
| | AE | | | | | |
| | AF | | | | | |
| | AG | | | | | |
| | AH | | | | | |
| | AI | | | | | |
| | AJ | | | | | |
| | AK | | | | | |
| | AL | | | | | |

FOREIGN PATENT DOCUMENTS

| Examiner Initial | Document Number | Date | Country | Class | Subclass | Translation | |
|------------------|-----------------|-----------|---------|--------|----------|-------------|----|
| | | | | | | Yes | No |
| <i>ja</i> | AM | 0580108A2 | 1-26-94 | Europe | | | |
| | AN | | | | | | |
| | AO | | | | | | |
| | AP | | | | | | |
| | AQ | | | | | | |
| | AR | | | | | | |
| | AS | | | | | | |
| | AT | | | | | | |

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

| | | |
|-----------------|---------------|--|
| | AU | |
| | AV | |
| | AW | |
| | AX | |
| | AY | |
| | AZ | |
| Examiner | <i>J Ch</i> | |
| Date Considered | <i>9/2000</i> | |

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U.S. PATENT DOCUMENTS

| Examiner Initial | | Document Number | Date | Name | Class | Subclass | Filing Date |
|------------------|----|-----------------|--------|-------------------|-------|----------|-------------|
| JSC | AA | 4,243,743 | 1-6-81 | Hiramoto, et al. | | | |
| | AB | 5,238,784 | 8-93 | Tokoh, et al. | 430 | 196 | |
| | AC | 4,608,333 | 8-86 | Ohbayashi, et al. | 430 | 906 | |
| | AD | 4,565,767 | 1-86 | Kataoka, et al. | 430 | 196 | |
| | AE | 4,451,551 | 5-84 | Kataoka, et al. | 430 | 197 | |
| | AF | 4,587,197 | 5-86 | Kojima, et al. | 430 | 196 | |
| JSC | AG | 4,783,391 | 11-88 | Ohbayashi, et al. | 430 | 196 | |
| | AH | | | | | | |
| | AI | | | | | | |
| | AJ | | | | | | |
| | AK | | | | | | |
| | AL | | | | | | |

FOREIGN PATENT DOCUMENTS

| Examiner Initial | | Document Number | Date | Country | Class | Subclass | Translation | |
|------------------|----|-----------------|----------|---------|-------|----------|-------------|----|
| | | | | | | | Yes | No |
| JSC | AM | 3-36861 | 6-3-91 | Japan | | | | |
| | AN | 718696A2 | 6-26-96 | Europe | | | | |
| | AO | 418870A2 | 3-27-91 | Europe | | | | |
| JSC | AP | 624826A1 | 11-17-94 | Europe | | | | |
| | AQ | | | | | | | |
| | AR | | | | | | | |
| | AS | | | | | | | |
| | AT | | | | | | | |

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

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|------------------------|----|---|
| JSC | AU | The Society of Polymer Science, Japan, Polymer Preprints, Japan. Vol. 41, No. 1 (1992). |
| JSC | AV | The Society of Polymer Science, Japan, Polymer Preprints, Japan. Vol. 42, No. 7 (1993). |
| JSC | AW | The Society of Polymer Science, Japan, Polymer Preprints, Japan. Vol. 42, No. 2 (1993). |
| | AX | |
| | AY | |
| | AZ | |
| Examiner JSC | | Date Considered 9/2000 |